



Component - Plastics

File Number: E121254

SAMYANG CORPORATION

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TRIEX: SO4-30(xx)UPN(@)(f1)

polycarbonate/Siloxane (PC/Siloxane), pellets

(@) - Represents any letter A ~ Z incl., except G with the grade 2(xx)GNH(e).

(f1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

(xx) - Represents any number 00-99 incl. to denote customer code.

Flammability	Value	Test Method
Flame Rating		
0.75 mm, ALL	HB	UL 94
1.0 mm, ALL	HB	UL 94
1.5 mm, ALL	V-0	UL 94 IEC 60695-11-10, -20
2.0 mm, ALL	V-0	UL 94 IEC 60695-11-10, -20
2.5 mm, ALL	V-0, 5VB	UL 94 IEC 60695-11-10, -20
3.0 mm, ALL	V-0, 5VA	UL 94 IEC 60695-11-10, -20
0.75 mm, ALL	HB75	IEC 60695-11-10, -20
1.0 mm, ALL	HB75	IEC 60695-11-10, -20
Glow Wire Flammability Index		IEC 60695-2-12
1.0 mm	960 °C	
2.0 mm	960 °C	
3.0 mm	960 °C	
Glow Wire Ignition Temperature		IEC 60695-2-13
1.0 mm	875 °C	
2.0 mm	850 °C	
3.0 mm	850 °C	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746
0.75 mm	PLC 3	
1.0 mm	PLC 3	
1.5 mm	PLC 3	
2.0 mm	PLC 3	
2.5 mm	PLC 2	
3.0 mm	PLC 2	
High Amp Arc Ignition (HAI)		UL 746
0.75 mm	PLC 0	
1.0 mm	PLC 0	
1.5 mm	PLC 0	
2.0 mm	PLC 0	
2.5 mm	PLC 0	
3.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 3	UL 746

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Electrical	Value	Test Method
Dielectric Strength	24 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 4	UL 746
Inclined-Plane Tracking	1.0 kV	ASTM D2303
Volume Resistivity	1.0E+15 ohms·cm	ASTM D257 IEC 60093
Arc Resistance	PLC 7	ASTM D495
Thermal	Value	Test Method
RTI Elec		UL 746
0.75 mm	80.0 °C	
1.0 mm	80.0 °C	
1.5 mm	80.0 °C	
2.0 mm	80.0 °C	
2.5 mm	80.0 °C	
3.0 mm	80.0 °C	
RTI Imp		UL 746
0.75 mm	80.0 °C	
1.0 mm	80.0 °C	
1.5 mm	80.0 °C	
2.0 mm	80.0 °C	
2.5 mm	80.0 °C	
3.0 mm	80.0 °C	
RTI Str		UL 746
0.75 mm	80.0 °C	
1.0 mm	80.0 °C	
1.5 mm	80.0 °C	
2.0 mm	80.0 °C	
2.5 mm	80.0 °C	
3.0 mm	80.0 °C	
Ball Pressure Test (75°C)	Pass	IEC 60695-10-2
Physical	Value	Test Method
Dimensional Stability	0.060 %	ASTM D1042 ISO 2796
Outdoor Suitability	f1	UL 746C